# Service Schematics




# RM-237

## Introduction

**Important:**

**This document is intended for use by authorized service centers only.**

“Service Schematics“ was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. “Component finder”.

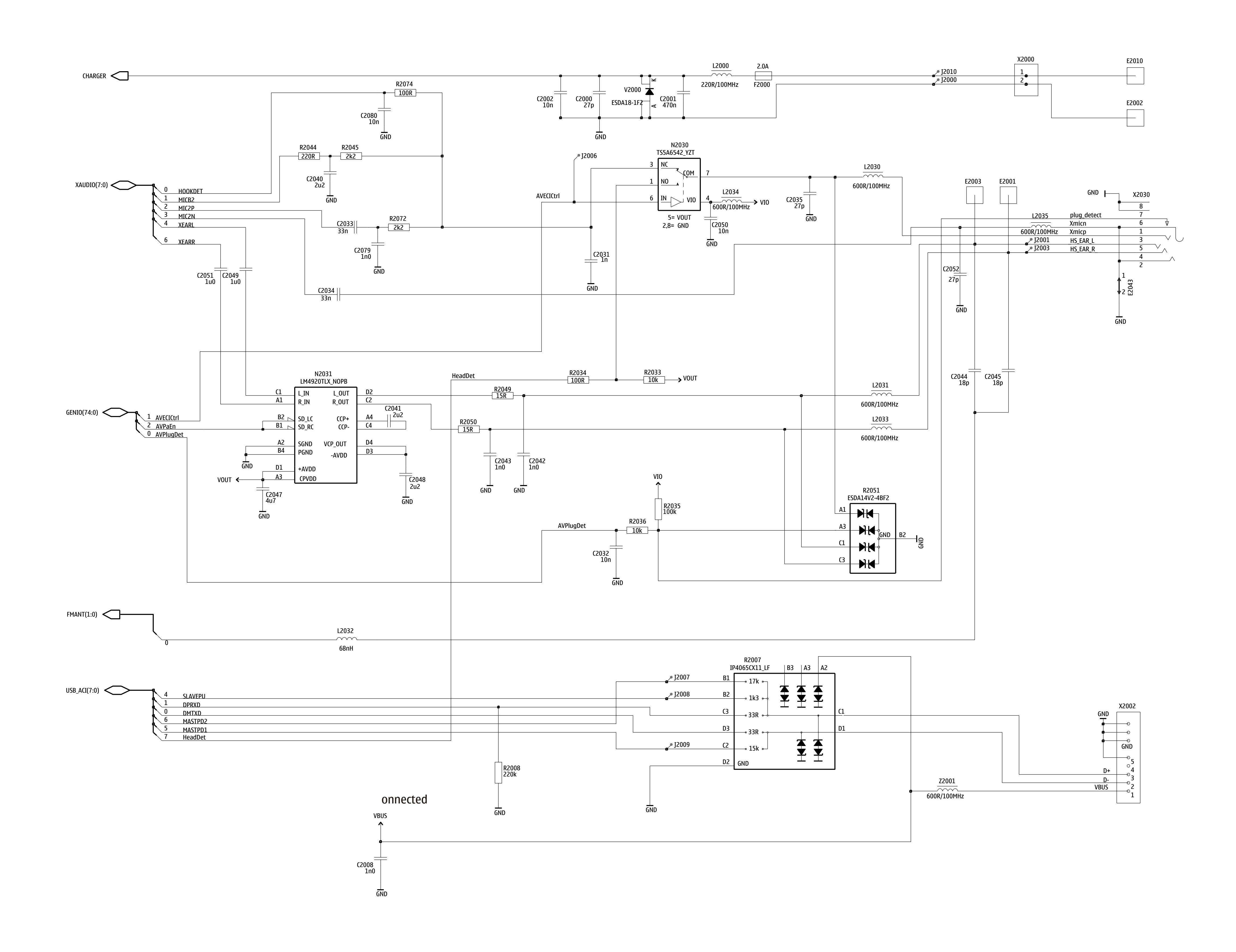
Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training or service information such as Service Bulletins.

While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA should be notified in writing.

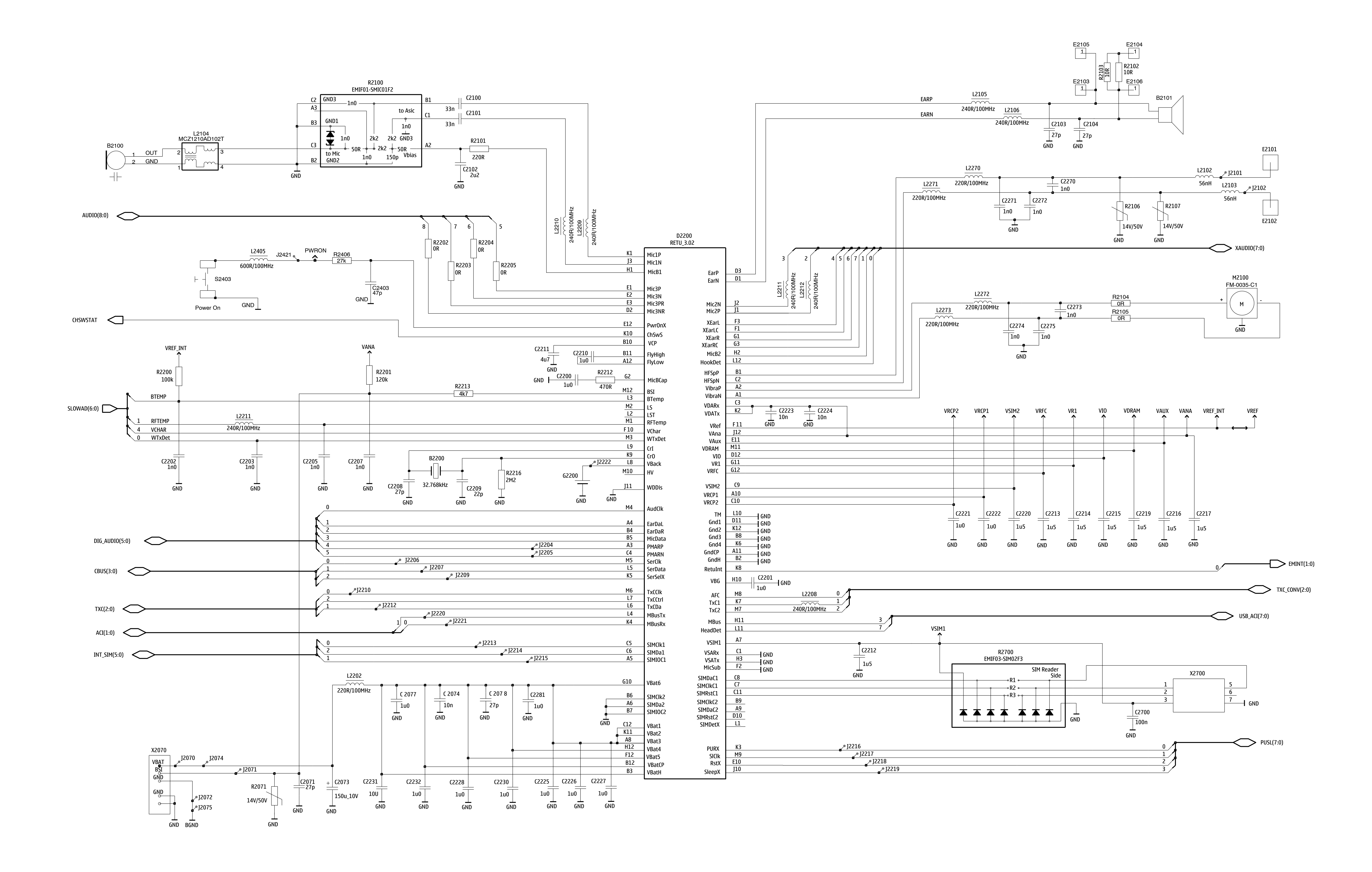
Please send E-Mail to: **training.sace@nokia.com**

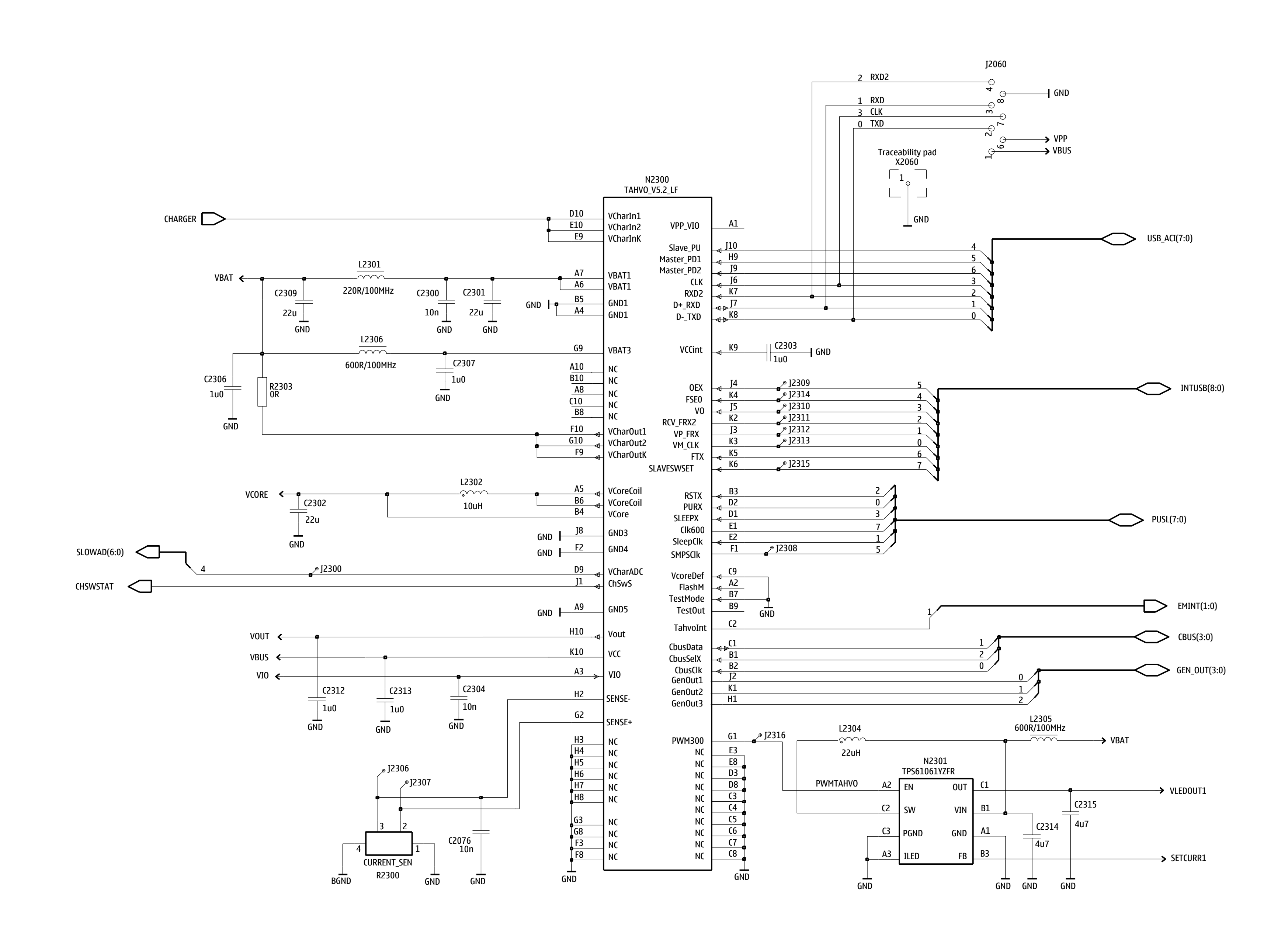


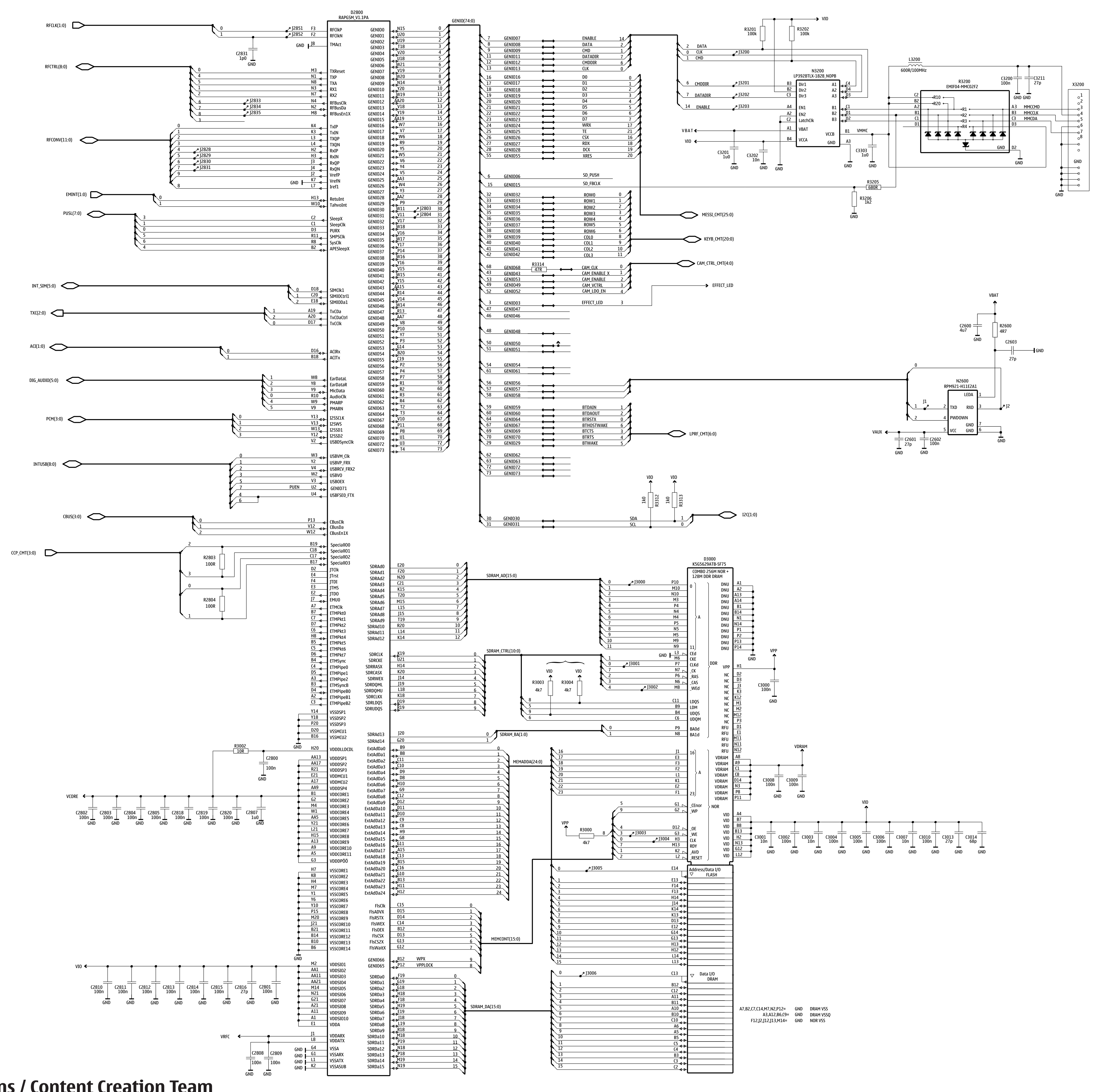

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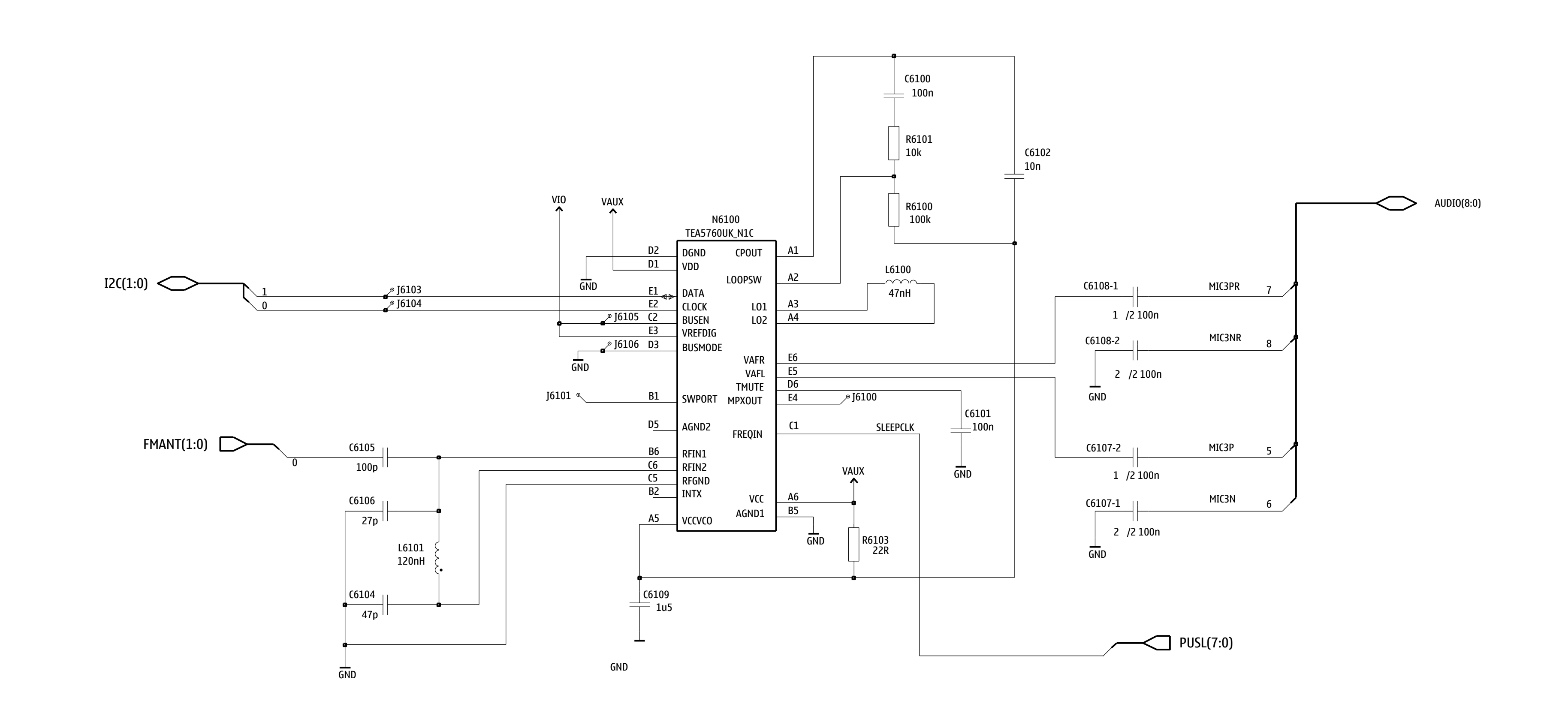


Customer Care / Service Operations / Content Creation Team
 Version: 1.0 | 13.03.2007 | 3110 classic | Board version: 1cba_31a | System connector | 

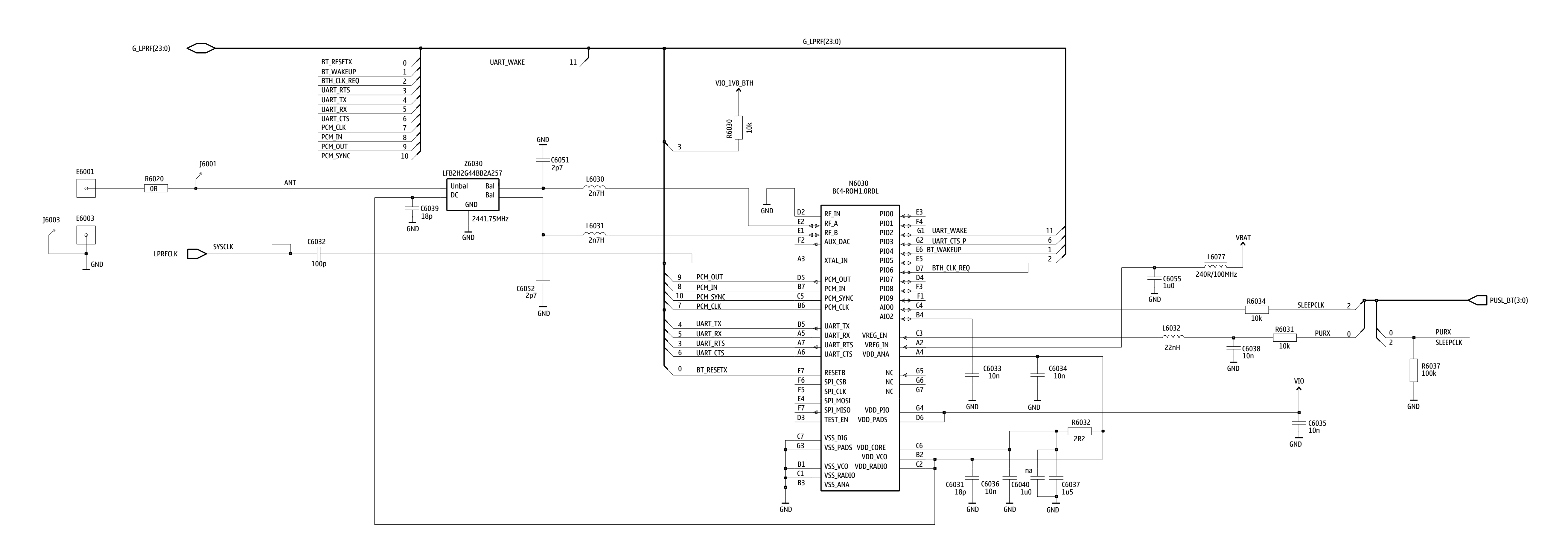



N2300
TAHVO_V5.2_LF
CHARGER
VCharIn1
VCharIn2
VCharInK
VPP_VIO
VBAT
L2301
220R/100MHz
C2309
22u
C2300
10n
C2301
22u
VBAT1
GND1
Slave_PU
Master_PD1
Master_PD2
CLK
RXD2
D+_RXD
D-_TXD
USB_ACI(7:0)
L2306
600R/100MHz
C2307
1u0
C2306
R2303
0R
VBAT3
VCCint
C2303
NC
OEX
FSE0
VO
RCV_FRX2
VP_FRX
VM_CLK
FTX
SLAVESWSET
VCharOut1
VCharOut2
VCharOutK
INTUSB(8:0)
VCORE
C2302
22u
L2302
10uH
VCoreCoil
VCore
RSTX
PURX
SLEEPX
Clk600
SleepClk
SMPSClk
PUSL(7:0)
GND3
GND4
SLOWAD(6:0)
CHSWSTAT
VCharADC
ChSwS
VcoreDef
FlashM
TestMode
TestOut
GND5
TahvoInt
EMINT(1:0)
VOUT
VBUS
VIO
Vout
VCC
CbusData
CbusSelX
CbusClk
CBUS(3:0)
GenOut1
GenOut2
GenOut3
GEN_OUT(3:0)
C2312
1u0
C2313
1u0
C2304
10n
SENSE-
SENSE+
PWM300
L2304
22uH
L2305
600R/100MHz
N2301
TPS61061YZFR
PWMTAHVO
EN
OUT
SW
VIN
PGND
GND
ILED
FB
C2314
4u7
C2315
4u7
VLEDOUT1
SETCURR1
CURRENT_SEN
R2300
C2076
10n
BGND
GND
J2060
RXD2
RXD
CLK
TXD
VPP
Traceability pad
X2060

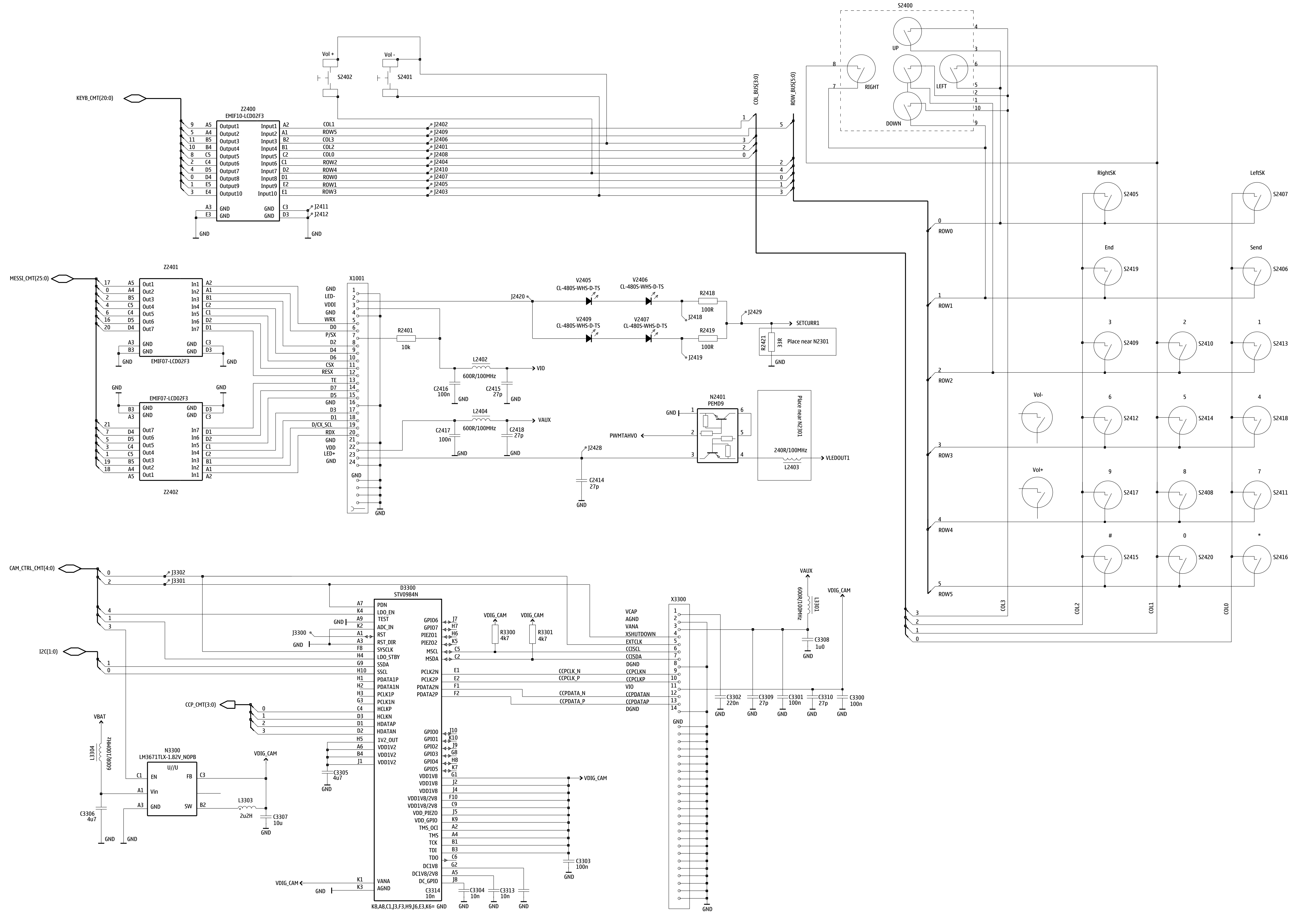


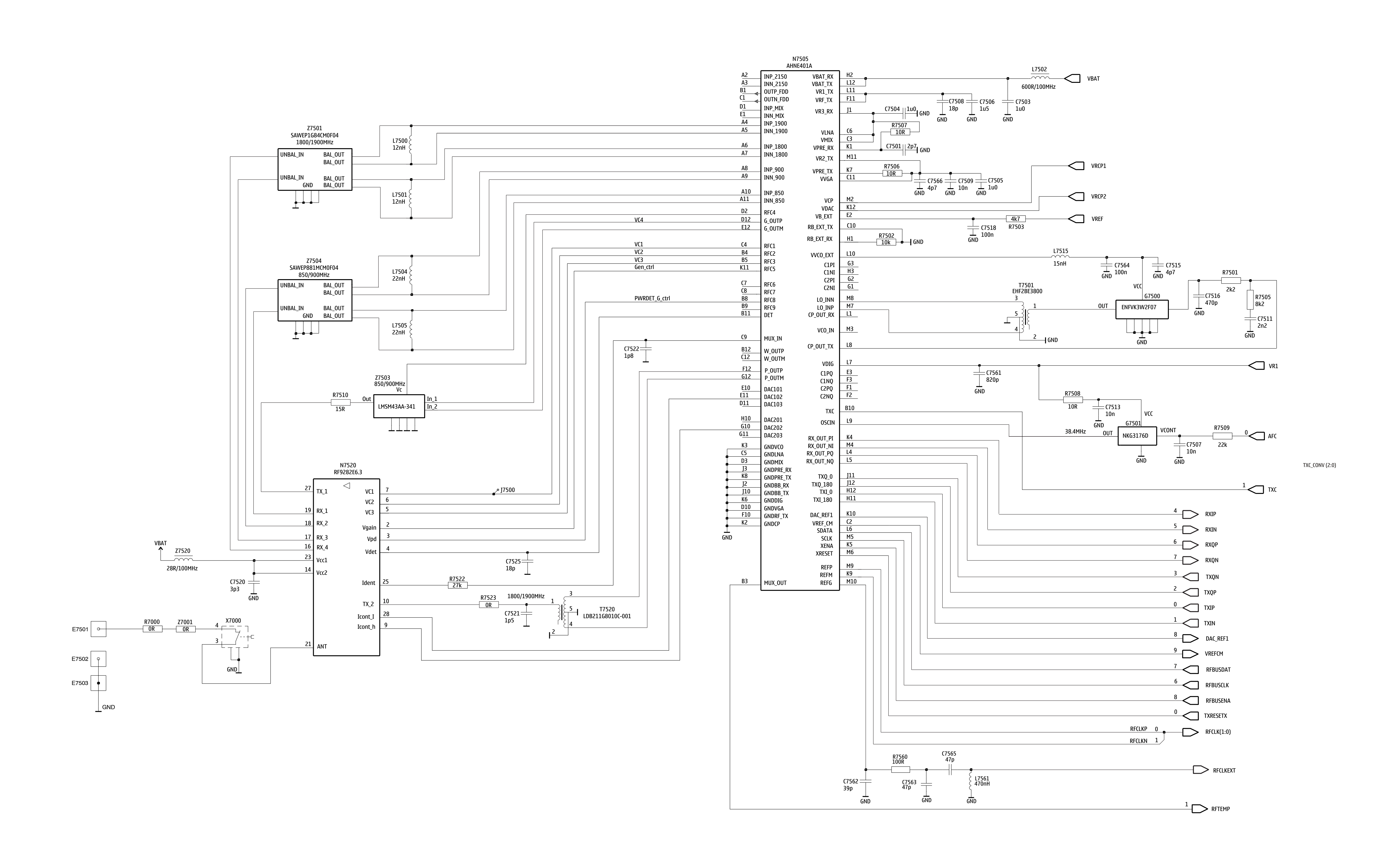


N6100
TEA5760UK_N1C
I2C(1:0)
FMANT(1:0)
AUDIO(8:0)
PUSL(7:0)
VIO
VAUX
GND
DGND
VDD
DATA
CLOCK
BUSEN
VREFDIG
BUSMODE
SWPORT
AGND2
RFIN1
RFIN2
RFGND
INTX
VCCVCO
CPOUT
LOOPSW
LO1
LO2
VAFR
VAFL
TMUTE
MPXOUT
FREQIN
VCC
AGND1
SLEEPCLK
J6103
J6104
J6105
J6106
J6101
J6100
C6100
100n
R6101
10k
R6100
100k
C6102
10n
L6100
47nH
C6101
100n
C6105
100p
C6106
27p
L6101
120nH
C6104
47p
C6109
1u5
R6103
22R
C6108-1
C6108-2
C6107-2
C6107-1
MIC3PR
MIC3NR
MIC3P
MIC3N

G_LPRF(23:0)
BT_RESETX
BT_WAKEUP
BTH_CLK_REQ
UART_RTS
UART_TX
UART_RX
UART_CTS
PCM_CLK
PCM_IN
PCM_OUT
PCM_SYNC
UART_WAKE
VIO_1V8_BTH
R6030
10k
N6030
BC4-ROM1.0RDL
Z6030
LFB2H2G44BB2A257
2441.75MHz
E6001
R6020
0R
J6001
ANT
J6003
E6003
LPRFCLK
SYSCLK
C6032
100p
C6039
18p
C6051
2p7
C6052
2p7
L6030
2n7H
L6031
2n7H
RF_IN
RF_A
RF_B
AUX_DAC
XTAL_IN
PCM_OUT
PCM_IN
PCM_SYNC
PCM_CLK
UART_TX
UART_RX
UART_RTS
UART_CTS
RESETB
SPI_CSB
SPI_CLK
SPI_MOSI
SPI_MISO
TEST_EN
VSS_DIG
VSS_PADS
VSS_VCO
VSS_RADIO
VSS_ANA
VREG_EN
VREG_IN
VDD_ANA
VDD_PIO
VDD_PADS
VDD_CORE
VDD_VCO
VDD_RADIO
AIO0
AIO2
UART_CTS_P
BT_WAKEUP
BTH_CLK_REQ
VBAT
L6077
240R/100MHz
C6055
1u0
R6034
10k
SLEEPCLK
PUSL_BT(3:0)
L6032
22nH
C6038
10n
R6031
10k
PURX
R6037
100k
C6033
10n
C6034
10n
C6035
10n
R6032
2R2
C6031
18p
C6036
10n
C6040
1u0
C6037
1u5
GND
VIO




N7505
AHNE401A
N7520
RF9282E6.3
Z7501
SAWEP1G84CM0F04
1800/1900MHz
Z7504
SAWEP881MCM0F04
850/900MHz
Z7503
850/900MHz
LMSM43AA-341
T7520
LDB211G8010C-001
T7501
EHF2BE3800
G7500
ENFVK3W2F07
G7501
NKG3176D
X7000
VBAT
VRCP1
VRCP2
VREF
VR1
AFC
TXC
RXIP
RXIN
RXQP
RXQN
TXQN
TXQP
TXIP
TXIN
DAC_REF1
VREFCM
RFBUSDAT
RFBUSCLK
RFBUSENA
TXRESETX
RFCLK(1:0)
RFCLKEXT
RFTEMP
E7501
E7502
E7503
GND

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B | | C2274 | K4 | C3300 | P7 | E2003 | D5 | J2209 | I6 | L2034 | D5 | R2072 | E5 | S | |
| B2100 | B8 | C2275 | K5 | C3301 | N5 | E2010 | A7 | J2206 | I6 | L2035 | C5 | R2074 | E5 | S2401 | O2 |
| B2101 | T7 | C2281 | L2 | C3302 | N5 | E2070 | P3 | J3001 | I7 | L2102 | Q7 | R2100 | G5 | S2402 | S2 |
| B2200 | M3 | C2300 | J4 | C3303 | O8 | E2071 | P4 | J3003 | I7 | L2103 | Q8 | R2101 | H6 | S2403 | U5 |
| C | | C2301 | I5 | C3304 | O8 | E2075 | P4 | J3000 | I8 | L2104 | G6 | R2102 | U7 | T | |
| C2000 | A4 | C2302 | K5 | C3305 | O7 | E2101 | Q7 | J2428 | J2 | L2105 | O2 | R2103 | U7 | T6000 | P2 |
| C2001 | B4 | C2303 | I3 | C3306 | O9 | E2102 | Q9 | J2309 | J3 | L2106 | O2 | R2104 | F5 | T6001 | R2 |
| C2002 | B3 | C2304 | K4 | C3307 | O8 | E2103 | U7 | J2315 | J3 | L2202 | M2 | R2105 | F5 | T6002 | P2 |
| C2008 | C3 | C2305 | I2 | C3308 | N6 | E2104 | T6 | J2310 | J3 | L2207 | M5 | R2106 | N5 | T6003 | P2 |
| C2030 | E5 | C2306 | I4 | C3309 | N5 | E2105 | U7 | J2312 | J3 | L2208 | M5 | R2107 | N5 | T6004 | Q2 |
| C2031 | E5 | C2307 | I4 | C3310 | P7 | E2106 | T7 | J2219 | J6 | L2209 | M5 | R2200 | M2 | T6005 | Q3 |
| C2032 | D5 | C2309 | I5 | C3313 | O8 | E2401 | C9 | J3005 | J8 | L2210 | M5 | R2201 | N3 | T7501 | R4 |
| C2033 | E5 | C2312 | I4 | C3314 | P8 | E2402 | C1 | J3004 | J8 | L2211 | N5 | R2202 | M5 | T7520 | S9 |
| C2034 | E5 | C2313 | I3 | C6020 | T2 | E2403 | N2 | J2311 | K3 | L2212 | N4 | R2203 | M5 | V | |
| C2035 | C6 | C2314 | J3 | C6031 | R2 | E2405 | T9 | J2313 | K3 | L2270 | L5 | R2204 | M5 | V2000 | B4 |
| C2040 | H6 | C2315 | K2 | C6032 | P3 | E2407 | N9 | J2314 | K3 | L2271 | L5 | R2205 | M5 | V2405 | G4 |
| C2041 | C4 | C2317 | J2 | C6033 | P3 | E2506 | T2 | J2316 | K3 | L2272 | K4 | R2212 | L5 | V2406 | G7 |
| C2042 | D4 | C2403 | N2 | C6034 | P3 | E6001 | T2 | J2217 | K4 | L2273 | K5 | R2213 | N3 | V2407 | B7 |
| C2043 | C4 | C2404 | T3 | C6035 | P2 | E6003 | T2 | J2216 | K4 | L2301 | I5 | R2216 | N3 | V2409 | B4 |
| C2044 | C5 | C2405 | H5 | C6036 | P3 | E7000 | U8 | J2218 | K4 | L2302 | J5 | R2250 | N2 | X | |
| C2045 | D5 | C2413 | I2 | C6037 | P2 | E7001 | U5 | J2300 | K4 | L2304 | J3 | R2251 | N3 | X1001 | U3 |
| C2046 | C4 | C2414 | T3 | C6038 | Q2 | E7501 | T9 | J2308 | K4 | L2305 | I3 | R2303 | I4 | X2000 | A7 |
| C2047 | C4 | C2415 | T4 | C6039 | Q3 | E7502 | T9 | J2214 | K6 | L2306 | I3 | R2401 | T4 | X2002 | B3 |
| C2048 | C3 | C2416 | T4 | C6040 | P2 | E7503 | U8 | J2213 | K6 | L2402 | T4 | R2406 | N2 | X2030 | B5 |
| C2049 | H5 | C2417 | T3 | C6051 | Q3 | F | | J2215 | K6 | L2403 | J2 | R2418 | H5 | X2060 | A4 |
| C2050 | D5 | C2418 | T3 | C6052 | Q2 | F2000 | B7 | J2207 | K6 | L2404 | T3 | R2419 | H5 | X2070 | O3 |
| C2051 | H5 | C2600 | H8 | C6055 | Q3 | G | | J3006 | K8 | L2405 | O2 | R2421 | K3 | X2700 | G3 |
| C2052 | C5 | C2601 | H9 | C6100 | G7 | G2200 | C2 | J2212 | L6 | L3200 | G8 | R2422 | G5 | X3200 | E8 |
| C2071 | Q4 | C2602 | G9 | C6101 | H6 | G7500 | S4 | J2220 | L6 | L3301 | N6 | R2600 | H8 | X3300 | P5 |
| C2073 | S3 | C2603 | H8 | C6102 | G7 | G7501 | Q4 | J2221 | L6 | L3303 | P9 | R2803 | L9 | X7000 | T8 |
| C2074 | L2 | C2700 | H3 | C6103 | G7 | J | | J3002 | L6 | L3304 | O9 | R2804 | L9 | Z | |
| C2076 | Q4 | C2701 | H3 | C6104 | H6 | J2000 | A7 | J2210 | M4 | L6030 | Q2 | R2830 | N8 | Z2001 | C3 |
| C2077 | M2 | C2800 | L9 | C6105 | G6 | J2010 | A7 | J2205 | M4 | L6031 | Q2 | R3000 | J6 | Z2400 | H4 |
| C2078 | M2 | C2801 | N8 | C6106 | H6 | J2408 | B9 | J2204 | M5 | L6032 | Q2 | R3002 | L9 | Z2401 | U4 |
| C2079 | E5 | C2802 | M9 | C6107 | H7 | J2401 | C2 | J2804 | M6 | L6077 | R3 | R3003 | K7 | Z2402 | R2 |
| C2080 | E5 | C2803 | L9 | C6108 | H6 | J2409 | C2 | J2803 | M6 | L6100 | G7 | R3004 | K8 | Z2700 | H3 |
| C2100 | G5 | C2804 | N8 | C6109 | G7 | J2412 | C2 | J3104 | M9 | L6101 | H6 | R3200 | G8 | Z6030 | R2 |
| C2101 | G5 | C2805 | K6 | C6111 | N5 | J2405 | C9 | J3102 | M9 | L7500 | S7 | R3201 | H8 | Z7001 | T8 |
| C2102 | H6 | C2807 | N9 | C6112 | N5 | J2406 | C9 | J3106 | M9 | L7501 | S7 | R3202 | H8 | Z7002 | T9 |
| C2103 | O2 | C2808 | M9 | C7000 | U8 | J2402 | C9 | J3105 | M9 | L7502 | Q5 | R3205 | G8 | Z7501 | S7 |
| C2104 | O2 | C2809 | M9 | C7001 | T9 | J2222 | D2 | J3107 | M9 | L7503 | Q9 | R3206 | H8 | Z7503 | Q7 |
| C2200 | M5 | C2810 | K9 | C7501 | S5 | J2404 | D2 | J3103 | M9 | L7504 | R7 | R3300 | P7 | Z7504 | R7 |
| C2201 | M3 | C2811 | K6 | C7502 | Q5 | J2403 | D2 | J2420 | N2 | L7505 | R7 | R3301 | P8 | Z7520 | S8 |
| C2202 | N2 | C2812 | L9 | C7503 | Q5 | J2410 | D2 | J2421 | N2 | L7515 | S5 | R3305 | O7 | | |
| C2203 | M4 | C2813 | N6 | C7504 | S5 | J2007 | D3 | J2834 | N6 | L7561 | Q6 | R3306 | P8 | | |
| C2204 | M4 | C2814 | M9 | C7505 | Q5 | J2008 | D3 | J2833 | N6 | M | | R3307 | P7 | | |
| C2205 | M5 | C2815 | K9 | C7506 | Q5 | J2009 | D3 | J2835 | N6 | M2100 | C8 | R3312 | I8 | | |
| C2206 | M4 | C2816 | K8 | C7507 | Q4 | J2001 | D4 | J2852 | N7 | N | | R3313 | I9 | | |
| C2207 | N3 | C2818 | K7 | C7508 | Q5 | J2003 | D5 | J2829 | N7 | N2030 | D6 | R3314 | O7 | | |
| C2208 | N4 | C2819 | K8 | C7509 | R5 | J2411 | D9 | J2830 | N7 | N2031 | C4 | R6005 | N3 | | |
| C2209 | N3 | C2820 | N7 | C7511 | R4 | J2407 | D9 | J2851 | N7 | N2300 | J4 | R6020 | T2 | | |
| C2210 | K3 | C2821 | N7 | C7513 | Q4 | J3114 | E3 | J2828 | N7 | N2301 | J2 | R6030 | P3 | | |
| C2211 | K3 | C2830 | N8 | C7515 | S5 | J3115 | E3 | J2831 | N7 | N2401 | G5 | R6031 | Q2 | | |
| C2212 | K4 | C2831 | N8 | C7516 | S5 | J3116 | E3 | J3100 | N9 | N2600 | G9 | R6032 | P2 | | |
| C2213 | L3 | C3000 | I6 | C7518 | Q5 | J3117 | E3 | J3101 | N9 | N3200 | G8 | R6034 | Q3 | | |
| C2214 | L3 | C3001 | J6 | C7520 | S8 | J3112 | E3 | J3301 | O7 | N3300 | O9 | R6037 | Q2 | | |
| C2215 | L2 | C3002 | J6 | C7521 | S8 | J3113 | E4 | J3302 | O8 | N3301 | O7 | R6100 | G7 | | |
| C2216 | L2 | C3003 | K9 | C7522 | Q8 | J1001 | E4 | J2074 | P3 | N6030 | P2 | R6101 | G7 | | |
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| C2220 | K4 | C3006 | I9 | C7525 | Q9 | J2600 | F6 | J2071 | P4 | N7520 | R8 | R6104 | G7 | | |
| C2221 | K2 | C3007 | J9 | C7560 | R4 | J3200 | G8 | J2075 | P4 | R | | R6105 | G7 | | |
| C2222 | K3 | C3008 | J9 | C7561 | R4 | J3201 | G8 | J3300 | P8 | R2007 | C3 | R7001 | T8 | | |
| C2223 | L5 | C3009 | I9 | C7562 | Q6 | J3202 | G8 | J2306 | Q4 | R2008 | C2 | R7002 | T9 | | |
| C2224 | M5 | C3010 | N6 | C7563 | Q6 | J3203 | G8 | J2307 | Q4 | R2033 | E5 | R7501 | R5 | | |
| C2225 | M3 | C3013 | K7 | C7564 | S5 | J1 | G9 | J2101 | Q8 | R2034 | E5 | R7502 | S6 | | |
| C2226 | L3 | C3014 | K7 | C7565 | Q6 | J2 | G9 | J2102 | Q8 | R2035 | D6 | R7503 | Q5 | | |
| C2227 | K3 | C3100 | E2 | C7566 | R5 | J2429 | H5 | J6001 | S2 | R2036 | D6 | R7505 | R4 | | |
| C2228 | L3 | C3115 | O7 | D | | J2419 | H5 | J6003 | S2 | R2044 | H6 | R7506 | R5 | | |
| C2230 | M3 | C3116 | O7 | D2200 | L4 | J6100 | H7 | J7500 | T8 | R2045 | E5 | R7507 | S5 | | |
| C2231 | K5 | C3200 | G8 | D2800 | L7 | J6101 | H7 | L | | R2049 | D4 | R7508 | R4 | | |
| C2232 | L3 | C3201 | H8 | D3000 | J7 | J6103 | H7 | L2000 | B4 | R2050 | C4 | R7509 | Q4 | | |
| C2270 | L5 | C3202 | H8 | D3300 | O8 | J6104 | H7 | L2030 | C5 | R2051 | C6 | R7510 | Q9 | | |
| C2271 | L5 | C3203 | G8 | E | | J6105 | H7 | L2031 | C5 | R2052 | C4 | R7522 | Q8 | | |
| C2272 | L5 | C3210 | G8 | E2001 | D4 | J6106 | H7 | L2032 | D6 | R2070 | E2 | R7523 | S9 | | |
| C2273 | K4 | C3211 | D9 | E2002 | A7 | J2418 | I5 | L2033 | D5 | R2071 | N2 | R7560 | Q6 | | |

